

# D-E200/E201/E206CK/E251

## SERVICE MANUAL

Ver 1.3 2001.06

With SUPPLEMENT-1  
(9-927-666-81)



(Photo: D-E201 (Silver))

*US Model*  
D-E200/E206CK/E251

*AEP Model*  
D-E200/E201/E206CK/E251

*Canadian Model*

*UK Model*

*E Model*

*Australian Model*

D-E201/E206CK

*Chinese Model*

D-E201

Model Name Using Similar Mechanism	D-190/191
CD Mechanism Type	CDM-2811AAC
Optical Pick-up Name	DAX-11A

### SPECIFICATIONS

#### CD player System

Compact disc digital audio system

#### Laser diode properties

Material: GaAlAs

Wavelength:  $\lambda = 780$  nm

Emission duration: Continuous

Laser output: Less than  $44.6 \mu\text{W}$  (This output is the value measured at a distance of 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

#### Error correction

Sony Super Strategy Cross Interleave Reed Solomon Code

#### D-A conversion

1-bit quartz time-axis control

#### Frequency response

20 - 20,000 Hz  $\pm 1/-3$  dB  
(measured by EIAJ CP-307)

#### Output (at 4.5 V input level)

Headphones (stereo minijack)  
Approx. 15 mW + Approx. 15 mW  
at 16 ohms

#### General

##### Power requirements

For the area code of the model you purchased, check the upper left side of the bar code on the package.

- Two LR6 (size AA) batteries: 3 V DC
- AC power adaptor (DC IN 4.5 V jack):  
US/CND/E92/MX model: 120 V, 60Hz  
AEP/FR/EE/E13/G model: 220 - 230 V, 50/60Hz  
UK model: 230 - 240 V, 50 Hz  
EA model: 110 - 240 V, 50/60 Hz  
AUS model: 240 V, 50 Hz  
E33 model: 100 - 240 V, 50/60 Hz  
HK model: 220 V, 50/60 Hz  
CH/AR model: 220 V, 50 Hz
- Sony CPM-300P mount plate for use on car battery: 4.5 V DC

##### Battery life (approx. hours) (EIAJ\*)

Battery life varies depending on how the player is used.

	ESP OFF	ESP ON
Two alkaline batteries LR6	15	14

\* Measured value by the standard of EIAJ (Electronic Industries Association of Japan).  
(When the unit is used on a flat and stable place.)

#### Dimensions (w/h/d) (without projecting parts and controls)

Approx.  $131 \times 28 \times 148$  mm  
( $5 \frac{1}{4} \times 1 \frac{1}{9} \times 5 \frac{4}{5}$  in.)

#### Mass

Approx. 220 g (7.8 oz.)

#### Operating temperature

5°C - 35°C (41°F - 95°C)

#### Supplied accessories

For the area code of the model you purchased, check the upper left side of the bar code on the package.

#### D-E200

Headphones/earphones (1)

#### D-E201

AC power adaptor (1)

Headphones/earphones (1)

#### D-E251

AC power adaptor (1)

Headphones/earphones (1)

– Continued on next page –

9-927-666-13

2001F0400-1

© 2001.6

Sony Corporation

Personal Audio Company

Shinagawa Tec Service Manual Production Group

## PORTABLE CD PLAYER

# SONY®

## D-E206CK

- AC power adaptor (1)
- Headphones/earphones (1)
- Car connecting pack (1)
- Car battery cord (1)
- Spiral tube (1)
- Velcro tape (2)

Design and specifications are subject to change without notice.

### For US customers

AC power adaptor supplied is not intended to be serviced. Should the AC power adaptor cease to function in its intended manner, during the warranty period, the adaptor should be returned to your nearest Sony Service Center or Sony Authorized Repair Center for replacement, or after warranty period, it should be discarded.

### • Abbreviation

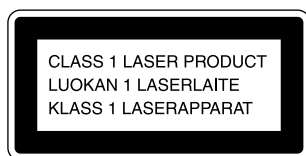
- AR : Argentine model
- AUS : Australian model
- CH : Chinese model
- CND : Canadian model
- E13 : AC 220-230V area in E model
- E33 : AC 100-240V area in E model
- E92 : AC 120V area in E model
- EA : Saudi Arabia model
- EE : East European model
- FR : French model
- G : German model
- HK : Hong Kong model
- MX : Mexican model

## TABLE OF CONTENTS

<b>1. SERVICE NOTE</b>	3
<b>2. GENERAL</b>	
Playing a CD right away!	4
<b>3. DISASSEMBLY</b>	
3-1. Cabinet (Lower) Sub Assy	6
3-2. Main Board, MD Assy	6
<b>4. ELECTRICAL ADJUSTMENTS</b>	
4-1. Focus Bias Check	7
<b>5. DIAGRAMS</b>	
5-1. IC Pin Description	8
5-2. Block Diagram –CD Section–	10
5-3. Block Diagram –Power Supply Section–	13
5-4. Printed Wiring Boards –Main Section–	15
5-5. Schematic Diagram –Main Section (1/2)–	19
5-6. Schematic Diagram –Main Section (2/2)–	21
5-7. IC Block Diagrams	23
<b>6. EXPLODED VIEWS</b>	
6-1. Cabinet (Upper) Section	25
6-2. Cabinet (Lower) Section	26
6-3. CD Mechanism Deck Section (CDM-2811AAC)	27
<b>7. ELECTRICAL PARTS LIST</b>	28

### CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



This Compact Disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT table is located on the bottom exterior.

### Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

### Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  $\triangle$  OR DOTTED LINE WITH MARK  $\triangle$  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  $\triangle$  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

## SECTION 1 SERVICE NOTE

### • NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

### • NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

### • To Check the Laser Diode and Focus Search Operation

Open the upper panel. Turn on the power without a disc while the main board S801 (OPEN) is ON (or TAP802 is shorted). Then, observe the objective lens and check that the following operations are performed.

1. Scattered light of laser beams is seen.
2. Check for vertical movements (five) of the objective lens (with movement of the PU on the inner circumference).

### • Before Replacing the Optical Pick-Up Block

Please be sure to check thoroughly the parameters as per the "Optical Pick-Up Block Checking Procedures" (Part No.: 9-960-027-11) issued separately before replacing the optical pick-up block. Note and specifications required to check are given below.

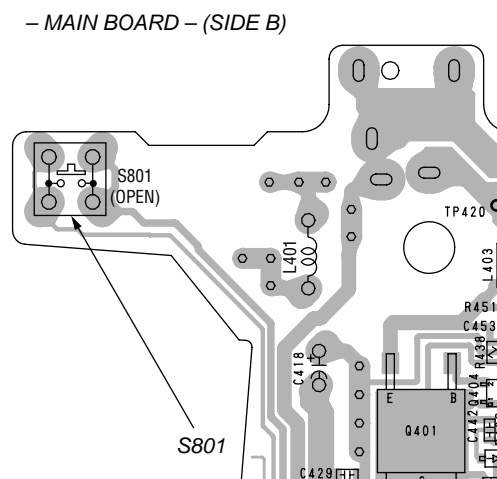
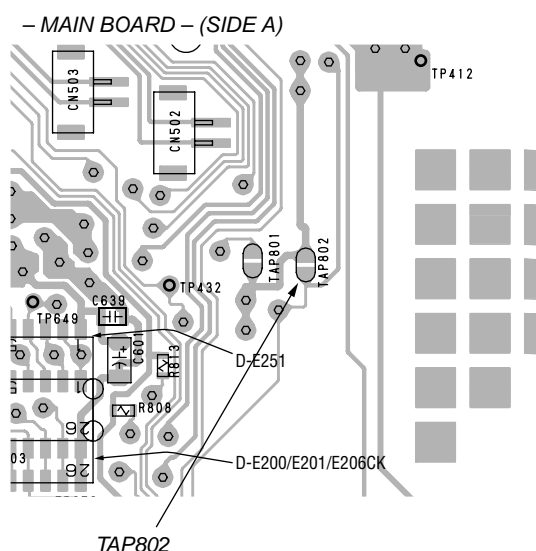
- FOK output : IC601 ③ pin

When checking FOK, remove the lead wire to disc motor.

When checking FOK value, remove the lead wire to disc motor.

- RF signal P-to-P value : 0.46 - 0.66 Vp-p

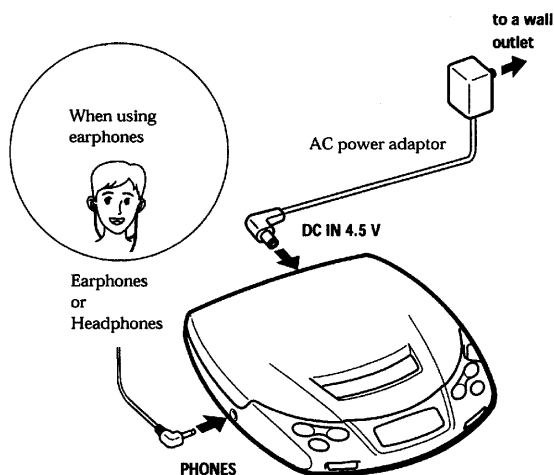
- The repairing grating holder is impossible.



## Playing a CD right away!

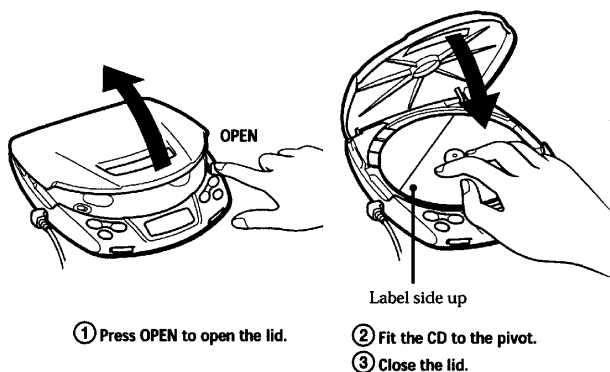
If you want to play a CD right now, choose to use your player on house current. Other choices are the following two: dry batteries (see, "Power Sources" on the reverse side) and car battery.

### 1 Connect

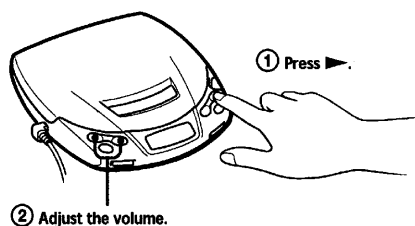


For models supplied with the AC plug adaptor  
If the AC power adaptor does not fit the wall outlet, use the AC plug adaptor.

### 2 Place a CD



### 3 Play



#### Playback starts from the point you stopped

Your CD player can recall the playback point where you stopped and then resume playing from the same place (resume function). There is no ON/OFF switch of the resume function on this CD player.

To	Press
Find the beginning of the current track (AMS*)	◀◀ once
Find the beginning of previous tracks (AMS)	◀◀ repeatedly**
Find the beginning of the next track (AMS)	▶▶ once
Find the beginning of succeeding tracks (AMS)	▶▶ repeatedly***
Go forward quickly	Hold down ▶▶
Go backwards quickly	Hold down ◀◀

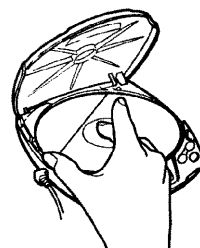
\* AMS = Automatic Music Sensor

\*\* When using ◀◀: previous track → previous track ..... first track → last track .....

\*\*\*When using ▶▶: next track → next track ..... last track → first track → second track .....

#### To remove the CD

Remove the CD while pressing the pivot.

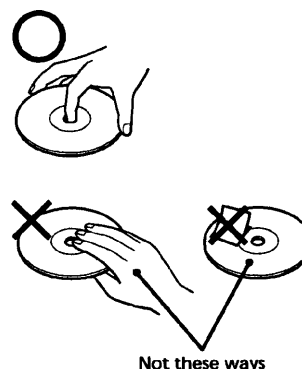


#### Notes on display

- When you press ▶, the total number of tracks in the CD and the total playing time appear.
- During play, the track number and the elapsed playing time of the current track appear.
- Between tracks, the time to the beginning of the next track will appear with the "-" indication.

#### Notes on handling CDs

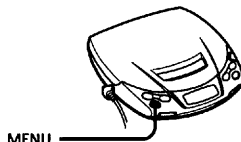
- To keep the CD clean, handle it by its edge. Do not touch the surface.
- Do not stick paper or tape onto the CD.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts. Do not leave the CD in a car parked under direct sunlight.



## ► Other Operations

### Selecting play mode

You can enjoy the following five play modes: "Normal play", "Repeat play — all the tracks", "Single track play", "Repeat play — a single track" and "Repeat shuffle play".



Press MENU during play. Each time you press the button, the play mode indication in the display changes as follows:

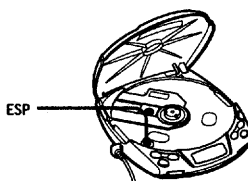


### Using other functions

#### To minimize skipping (ESP\*)

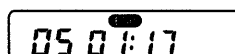
The ESP (Electronic Shock Protection) function minimize skipping by using a buffer memory that stores music data and plays it back in the event of a shock. The new ESP<sup>2</sup> (ESP Squared) system uses a new DSP (Digital Signal Processor) which can read and store music data more efficiently, providing a level of continuous skip protection not found in traditional buffer memory units. This decreases the frequency of sound skipping and the need to utilize the buffer memory. Use this function when listening in a car or while walking.\*

\* Although ESP<sup>2</sup> provides excellent protection against skipping, it will not prevent skipping while jogging or running.



Set ESP to "ON."  
The ESP indication appears.

To release the ESP function, Set ESP to "OFF."



#### Notes

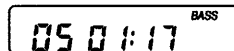
- Playing may stop when the player gets a strong shock even with the ESP function on.
- You may hear a noise or sound skip when:
  - listening to a dirty or scratched CD,
  - listening to an audio test CD or,
  - the player receives continuous shock.

#### To enjoy more powerful bass sound (Sound function)

You can enjoy a powerful bass-boosted sound.



Set MEGA BASS to ON.  
"BASS" appears in the display.

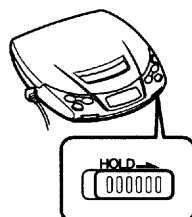


#### Note

- If the sound is distorted when emphasizing bass, turn down the volume.

#### To lock the buttons

You can lock your player against any accidental operations.

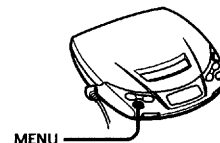


Slide HOLD in the direction of the arrow. When you press any button, "Hold" appears in the display and you cannot operate the player.

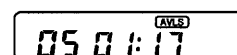
To unlock, slide HOLD back.

#### To protect your hearing (AVLS)

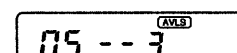
The AVLS (Automatic Volume Limiter System) function keeps down the maximum volume to protect your ears.



Hold down MENU until "AVLS" appears in the display.



If you turn up the volume to "3", you cannot turn up the volume any more.



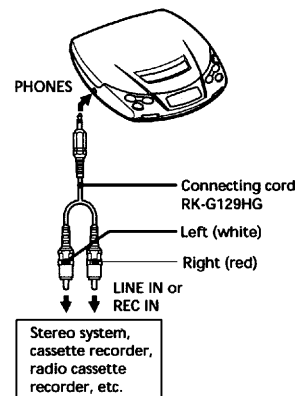
If you want to turn up the volume to more than "3", hold down MENU until "AVLS" disappears from the display.

#### Note

- If you use the sound function and the AVLS function at the same time, sound may be distorted. If this happens, turn down the volume.

### Connecting to other stereo equipment

You can listen to the CD through other stereo equipment or record a CD on a cassette tape. Refer to the instruction manual of the other equipment for details. Before making connections, turn off each piece of equipment.



#### Notes

- Before you play the CD, turn down the volume of the connected equipment so as not to damage the connected speakers.
- When you connect other equipment to the PHONES jack of this player, adjust the volume on the connected equipment.
- If you turn up the volume to more than "8", the sound may be distorted.

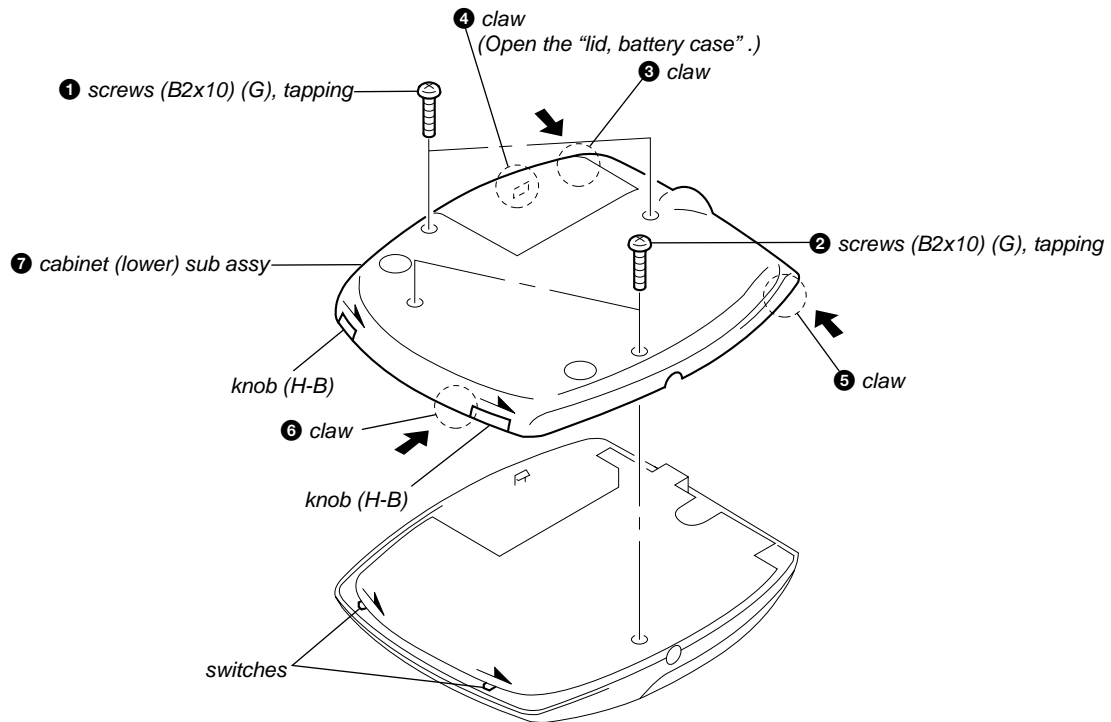
Continue to the reverse side →

## SECTION 3 DISASSEMBLY

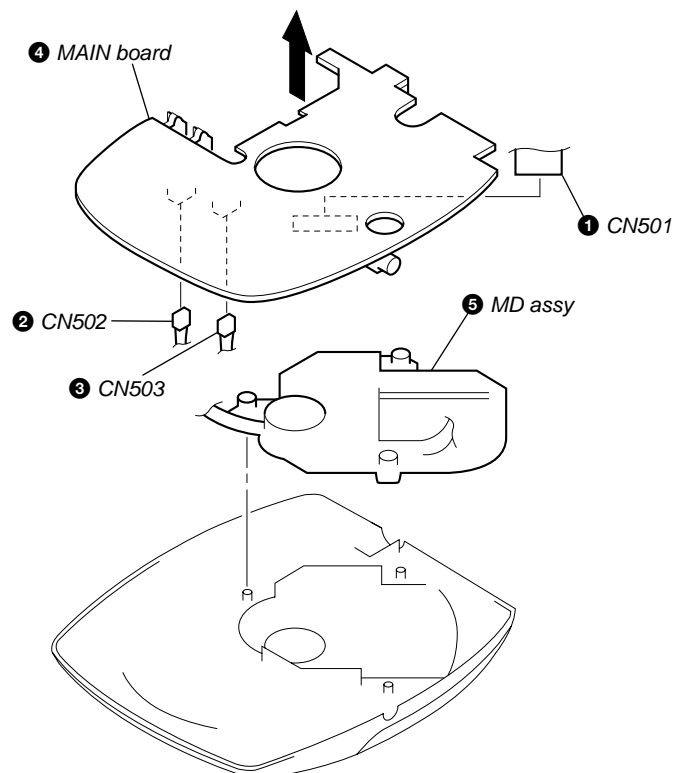
**Note :** Follow the disassembly procedure in the numerical order given.

### 3-1. CABINET (LOWER) SUB ASSY

**Note :** When installing, fit the knobs (H-B) and switches.




### 3-2. MAIN BOARD, MD ASSY



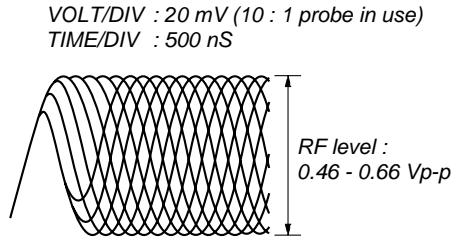
SECTION 4  
ELECTRICAL ADJUSTMENTS

CD section adjustments are done automatically in this set.  
In case of operation check, confirm that focus bias.

4-1. FOCUS BIAS CHECK

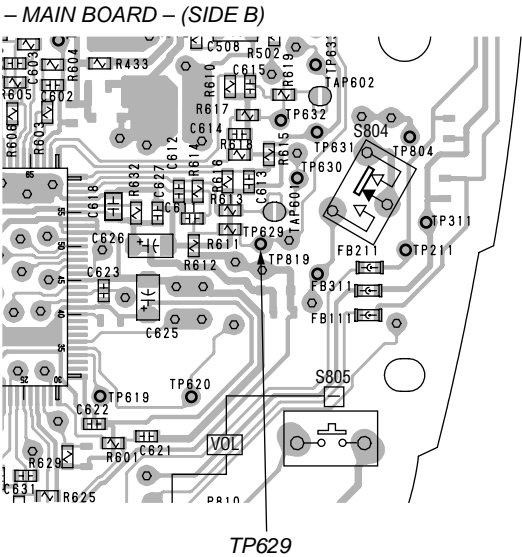
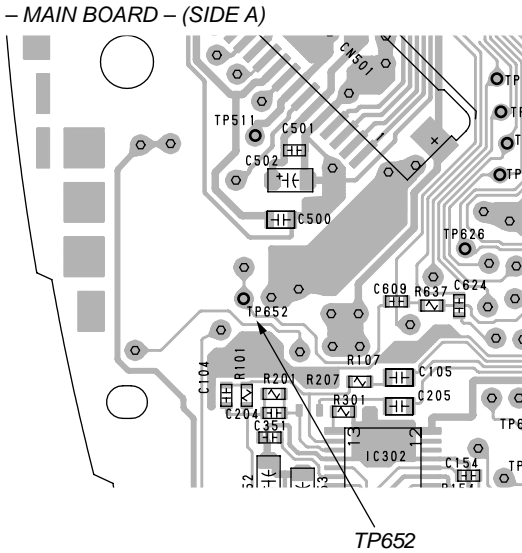
1. Connect the oscilloscope between TP629 (RF) or TP652 (RF) and GND on main board.
2. Insert the disc (YEDS-18). (Part No. : 3-702-101-01)
3. Press the  button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)  
A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.

- RF signal reference waveform (eye pattern)



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

Test Points:



SECTION 5  
DIAGRAMS

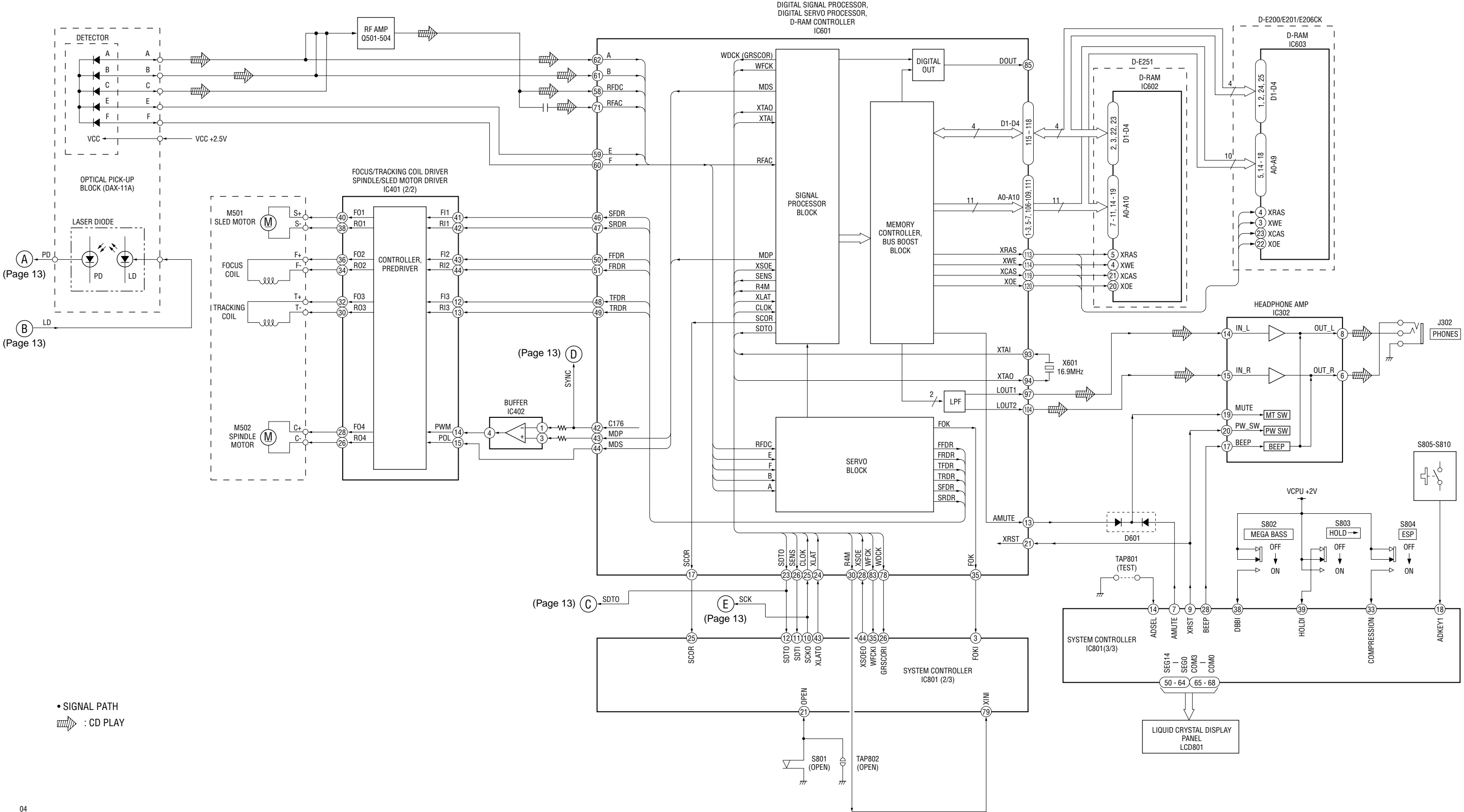
5-1. IC PIN DESCRIPTION

• IC801 TMP88CM22F (SYSTEM CONTROLLER)

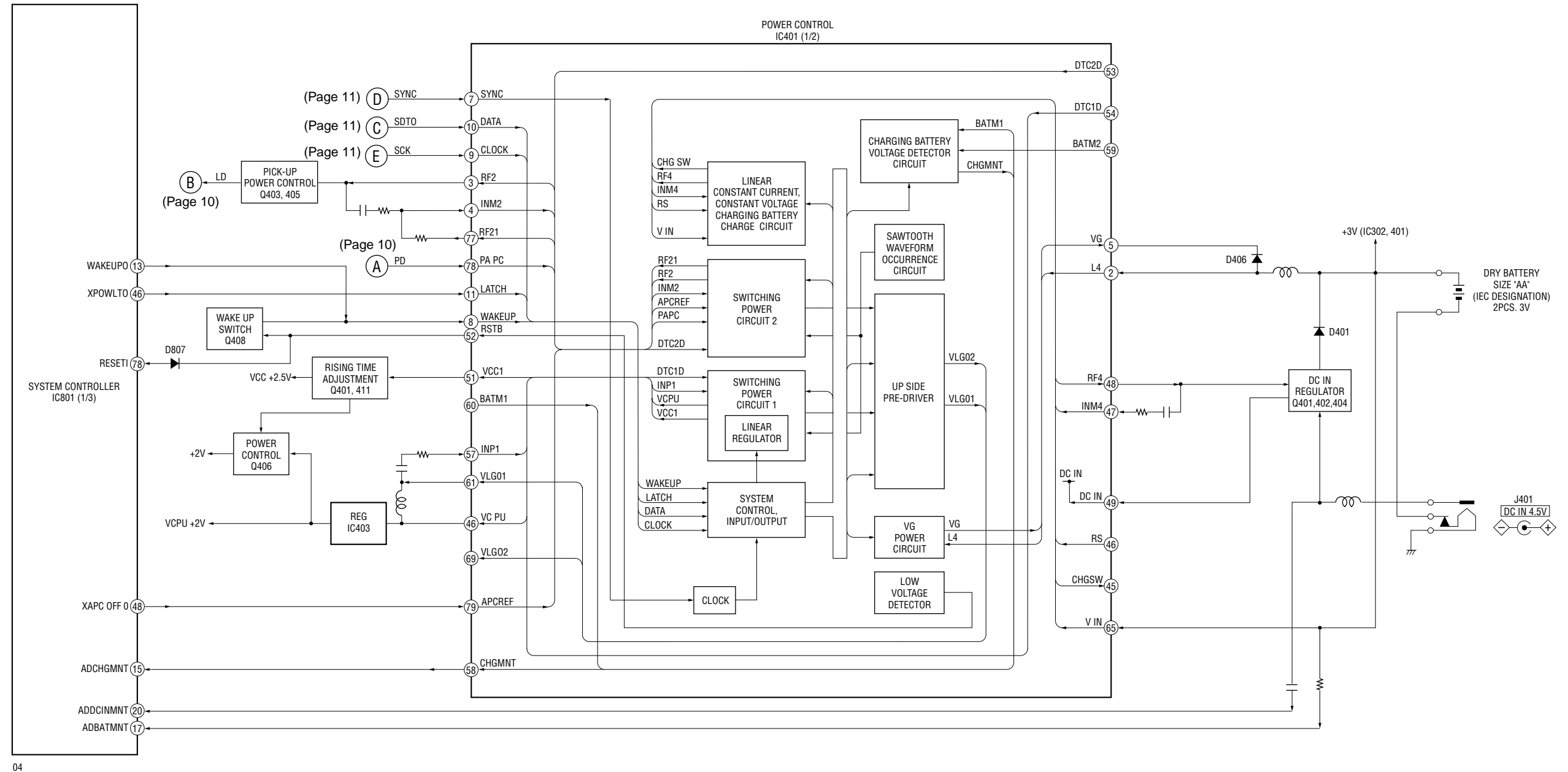
Pin No.	Pin Name	I/O	Pin Description
1	VSS	—	Ground
2	RESERVE	—	Not used (Open)
3	FOK I	I	Focus OK signal input from digital servo processor (IC601).
4	AGCPWM O	O	AGC control pulse output
5, 6	RESERVE	—	Not used (Open)
7	AMUTE O	O	Analog audio muting ON/OFF signal control signal output (H: Mute ON)
8	RESERVE	—	Not used (Open)
9	XRST O	O	Reset signal output to CXD3027R (IC601). (L: Reset)
10	SCK O	O	Serial data transfer clock signal output to CXD3027R (IC601).
11	MSDT I (SENS)	I	Serial data input from CXD3027R (IC601).
12	MSDT O	O	Serial data output to CXD3027R (IC601).
13	WAKEUP O	O	WAKE-UP control signal output (for system standby reset)
14	AD SEL	I	Plug-in detection signal input of LINE OUT/OPTICAL OUT jack.
15	AD CHGMNT	I	Battery charge voltage detection input from power control IC (IC401).
16	RESERVE	—	Fixed at H.
17	AD BATMNT	I	Battery voltage detection input
18	AD KEY1	I	Key input from switch unit (A/D input)
19	RESERVE	—	Fixed at H.
20	AD DCINMNT	I	DC input voltage detection input (A/D input) DC input jack use/no-use detect input
21	WP OPEN	I	CD door open/close detection input
22	VREFL	I	Reference voltage (0 V) input for A/D converter.
23	VREFH	I	Reference voltage (+2 V) input for A/D converter.
24	VDD	—	Power supply pin (+2 V)
25	SCOR I	I	Sub code sync detection input from CXD3027R (IC601).
26	GRSCOR I	I	GRSCOR signal input
27	FG I	I	FG pulse input
28	BEEP O	O	Beep sound output to headphone AMP (IC302).
29 – 32	RESERVE	—	Not used (Open)
33	COMPRESSION	I	Key input from EPS switch (S804).
34	27/37	—	Not used (Open)
35	WFCKI	I	WFCK input
36	XWRE	—	Not used (Open)
37	XQOK	—	Not used (Open)
38	DBB I	I	MEGA BASS switch (S802) input (L: OFF, H: ON)
39	HOLD I	I	HOLD switch (S803) input (L: HOLD on, H: HOLD off)
40, 41	RESERVE	—	Not used (Open)
42	XHGON	—	Not used (Open)
43	XLAT O	O	Serial data latch pulse output to D-RAM controller (IC601). (for ESP)
44	XSOE O	O	Output enable signal output (for ESP)
45	VOLUME IC LATCH O	O	Not used (Fixed at H)
46	XPOWLT O	O	Latch output to VCD control IC (IC401).
47	RESERVE	—	Not used (Open)
48	XAPC OFF O	O	APC mute signal output (L: mute)
49	SEG15	—	Not used. (Open)
50 – 62	SEG14 – 2	O	LCD drive segment output

Pin No.	Pin Name	I/O	Pin Description
63	SEG1	—	LCD drive segment output (Open)
64	SEG0	O	LCD drive segment output
65 – 68	COM3 – 0	O	LCD drive common output
69 – 71	V3 – 1	O	LCD drive bias output
72, 73	C1, 0	O	Capacitor connected terminal of LCD driver for voltage-up.
74	STOP	O	Stop signal output to VCD control IC. (Connect to ground.)
75	TEST	I	Test terminal for IC. Fixed at L.
76	XHPSW O	—	Not used (Open)
77	XLIGHT O	—	Not used (Open)
78	RESET I	I	System reset signal input from power control IC (IC401). (L: Reset)
79	XIN	I	Oscillation input
80	XOUT	O	Oscillation output (Open)

5-2. BLOCK DIAGRAM — CD SECTION —

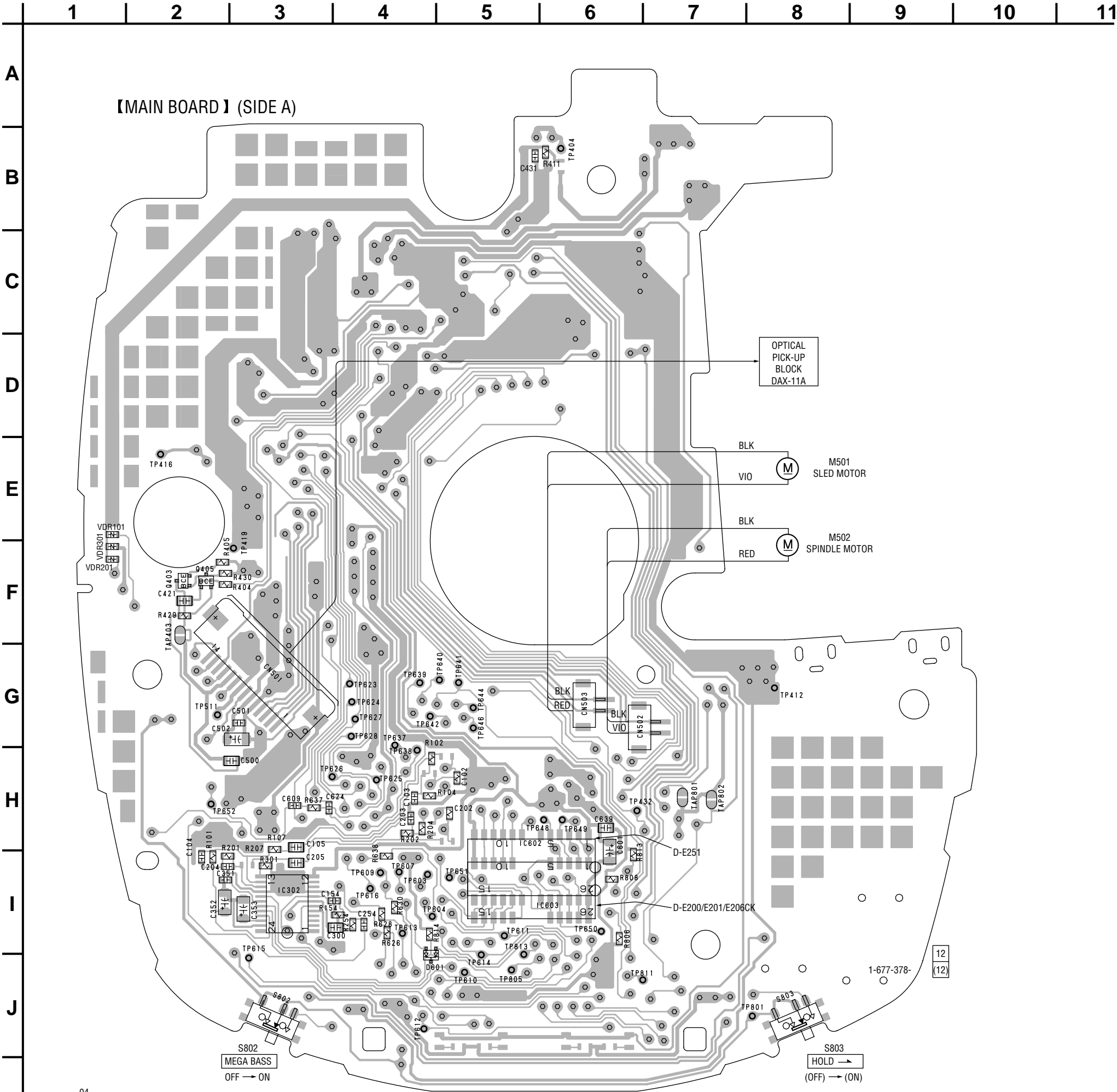


## 5-3. BLOCK DIAGRAM — POWER SUPPLY SECTION —



04

5-4. PRINTED WIRING BOARDS — MAIN SECTION —



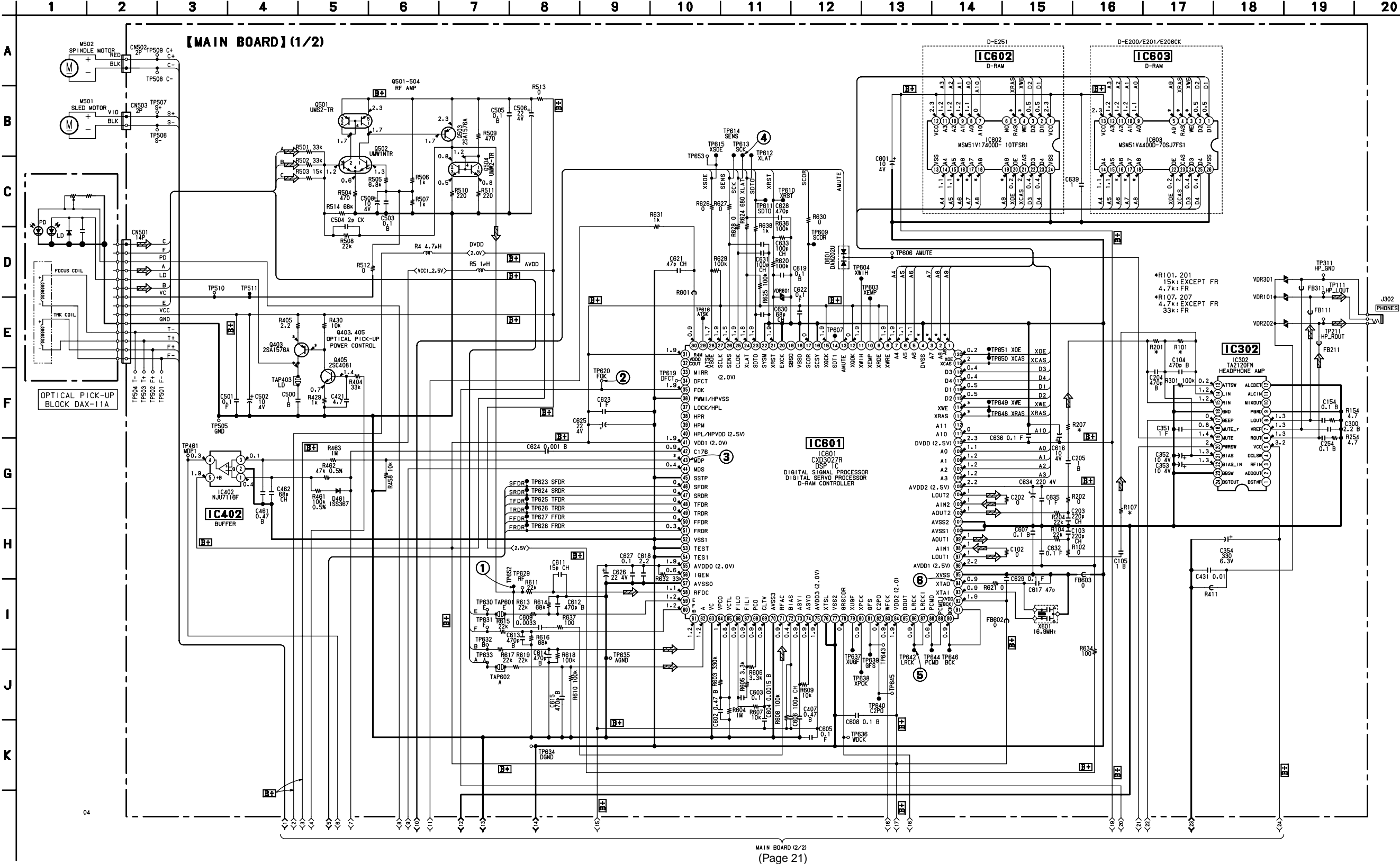


Ref. No.	Location	Ref. No.	Location
(D401)	D-6	(IC801)	H-4
(D406)	C-5		
(D408)	D-8	(Q401)	C-6
(D409)	C-5	(Q402)	D-2
(D410)	D-7	Q403	F-2
(D461)	F-4	(Q404)	C-6
D601	J-4	Q405	F-2
		(Q406)	E-3
IC302	I-3	(Q408)	D-3
(IC401)	D-4	(Q410)	F-3
(IC402)	F-4	(Q411)	F-3
(IC403)	D-2	(Q501)	F-2
(IC601)	J-6	(Q502)	F-2
IC602	I-6	(Q503)	F-2
IC603	I-6	(Q504)	F-3

- 18 -

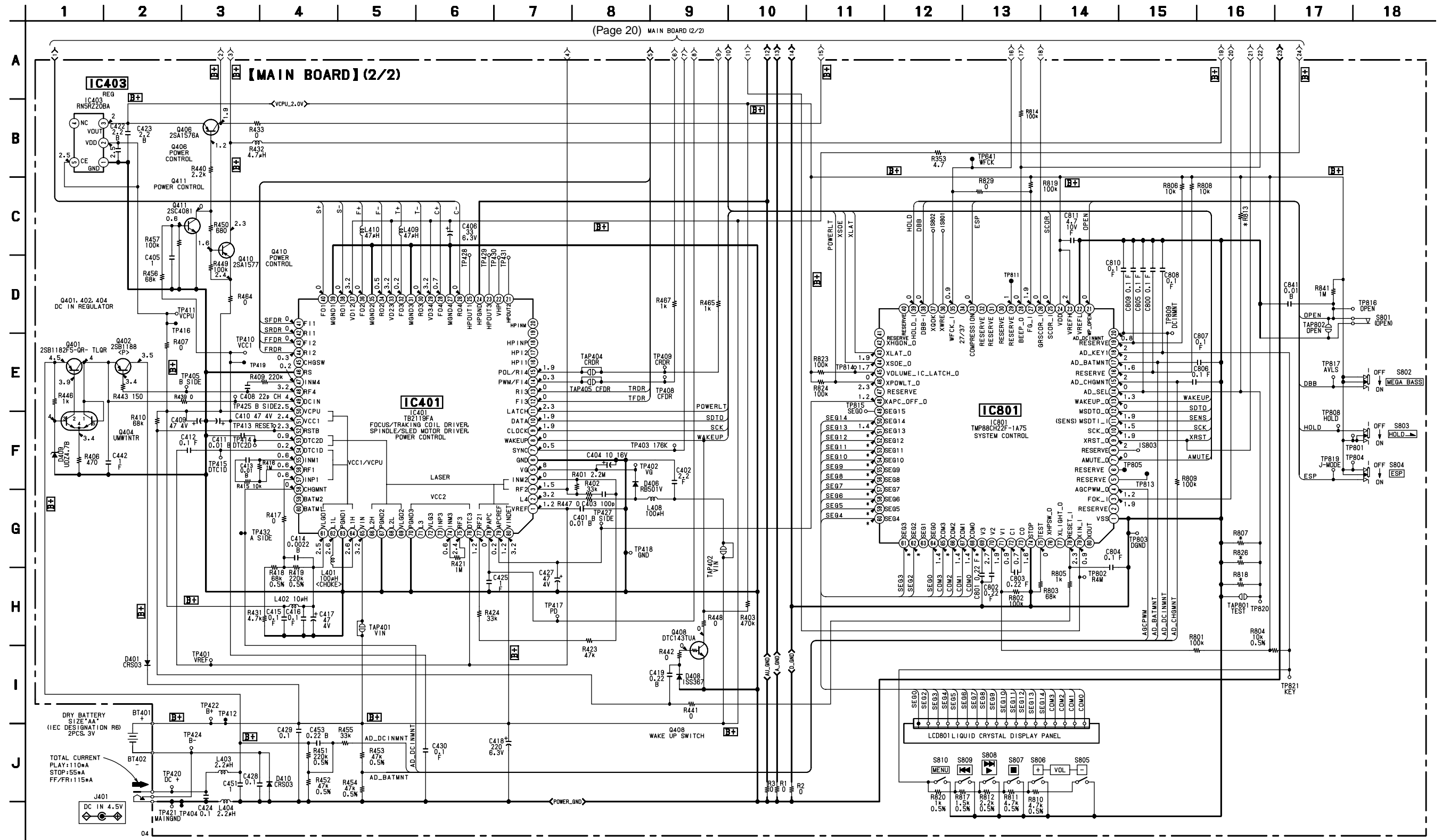
**5-5. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) —**

- Refer to page 18 for Waveforms.
- Refer to page 23 for IC Block Diagrams.
- Refer to page 15 for Note.



**5-6. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) —**

- Refer to page 24 for IC Block Diagrams.
- Refer to page 15 for Note.

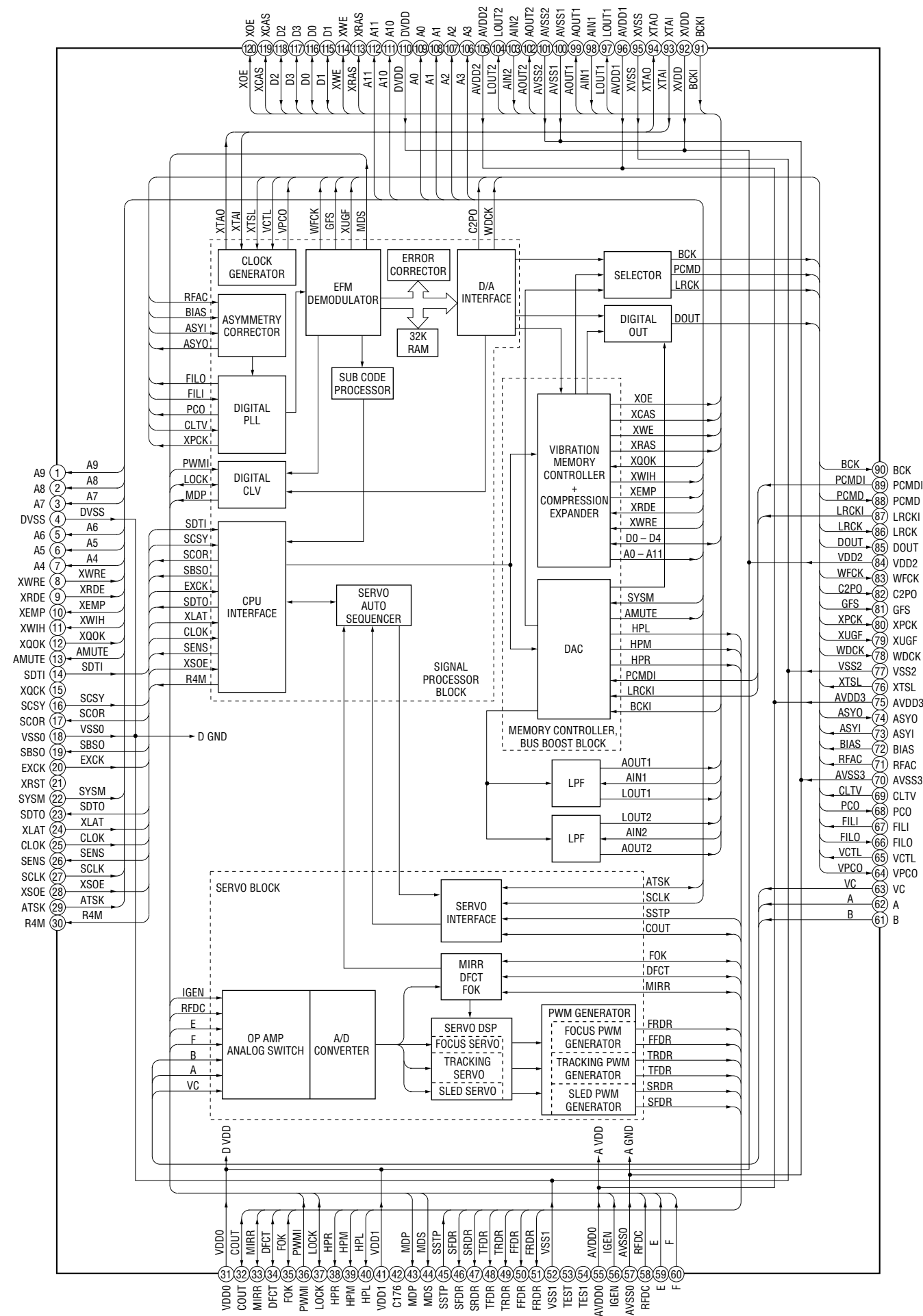


\* DIFFERENCE LIST

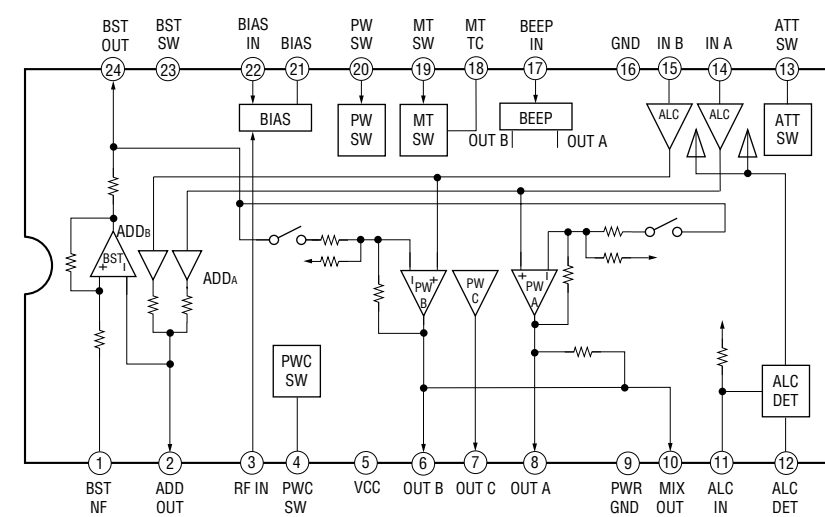
		R813	R807	R826	R818
E200/E201/ E206CK	EXCEPT FR	33k	220k	330k	150k
	FR	150k	68k	100k	47k
E251	EXCEPT FR	22k	NO MOUNT	330k	330k
	FR	68k	100k	220k	220k

## 5-7. IC Block Diagrams

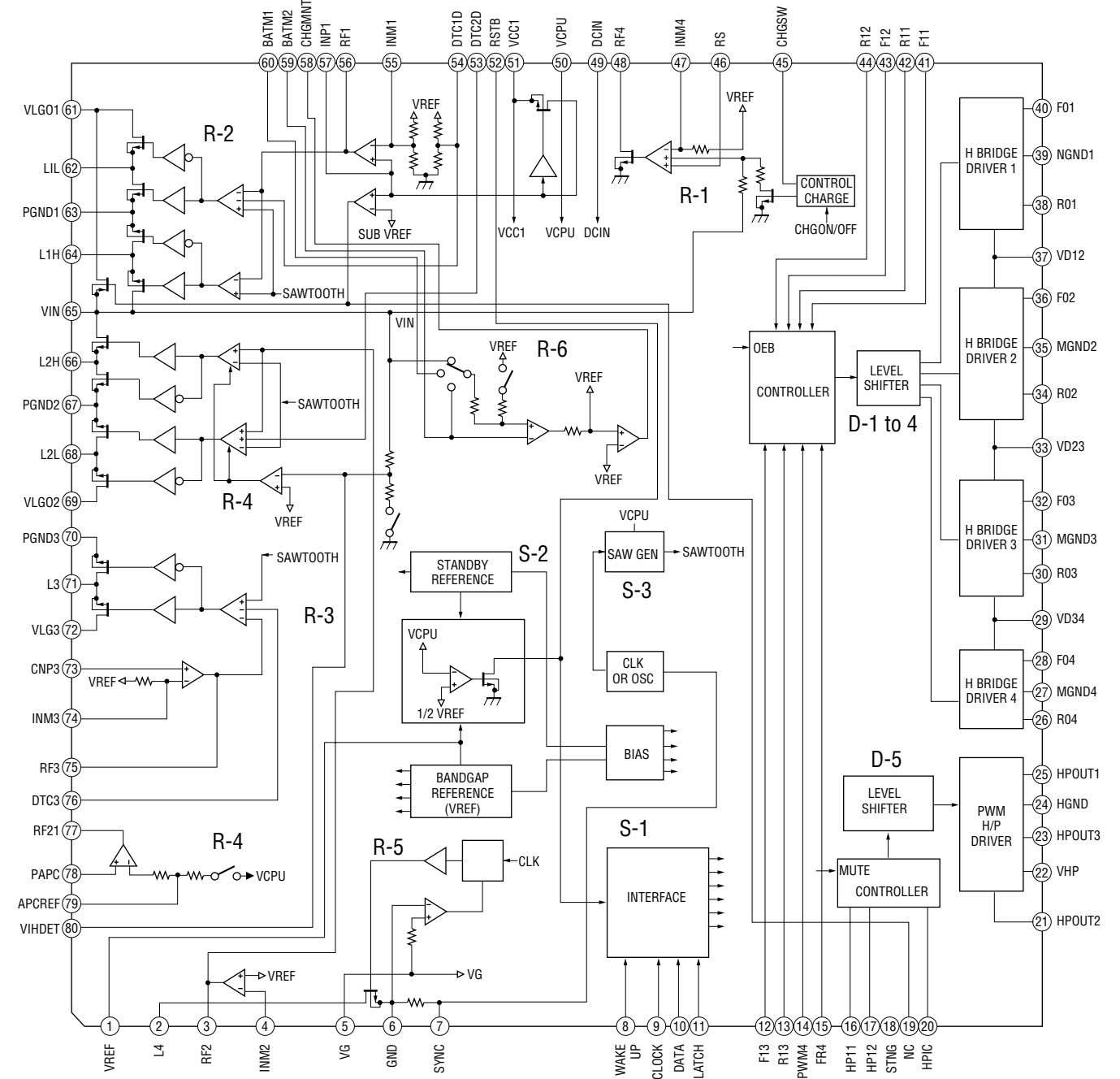
IC601 CXD3027R



IC302 TA2120FN



IC401 TB2119FA



## SECTION 6 EXPLODED VIEWS

### NOTE:

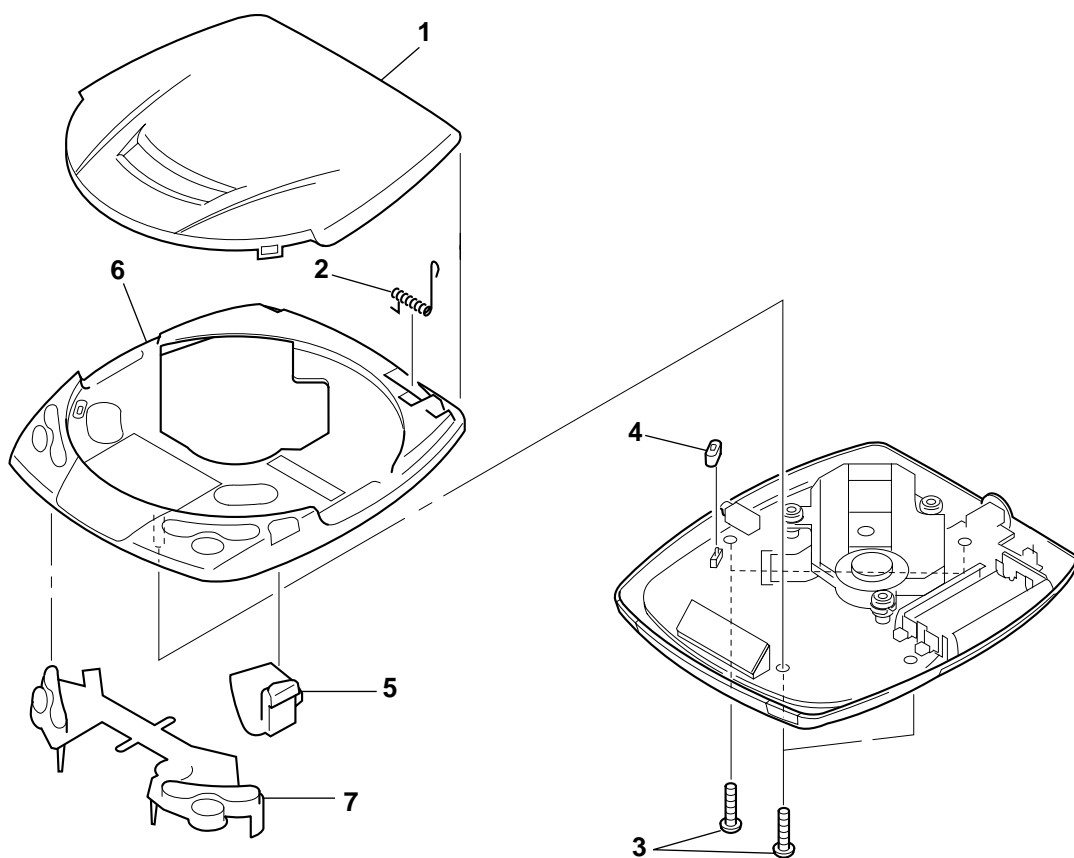
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Accessories and packing materials are given in the last of this parts list.

- Abbreviation  
AR : Argentine model  
AUS : Australian model  
CH : Chinese model  
CND : Canadian model  
E13 : AC 220-230V area in E model  
E33 : AC 100-240V area in E model  
E92 : AC 120V area in E model  
EA : Saudi Arabia model  
EE : East European model  
FR : French model  
G : German model  
HK : Hong Kong model  
MX : Mexican model

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

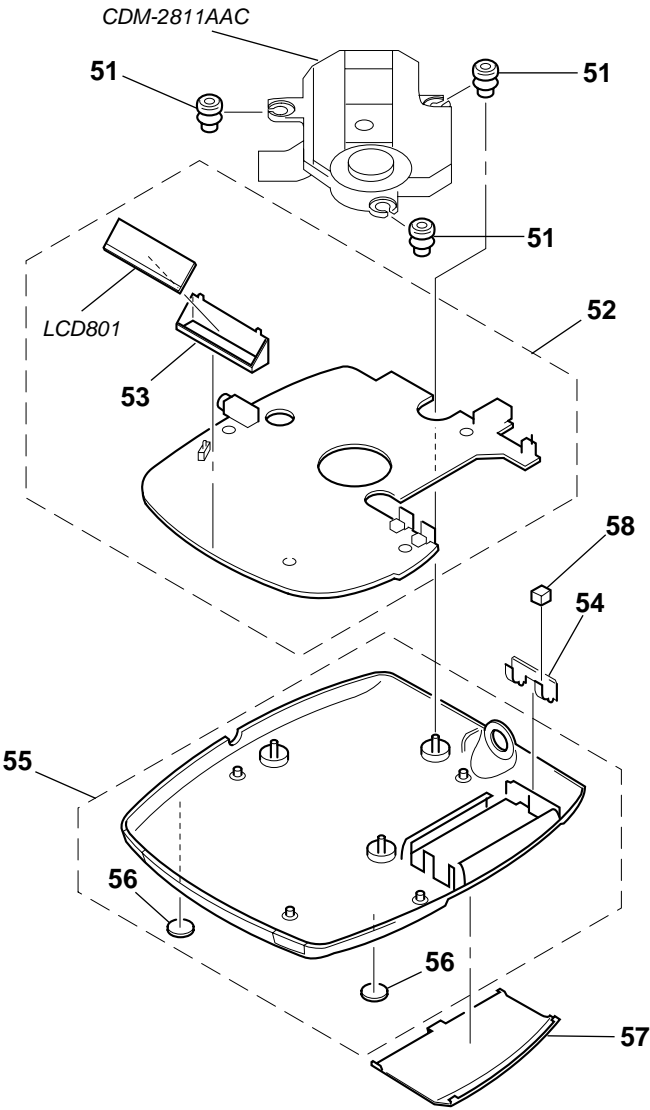
Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

### 6-1. CABINET (UPPER) SECTION



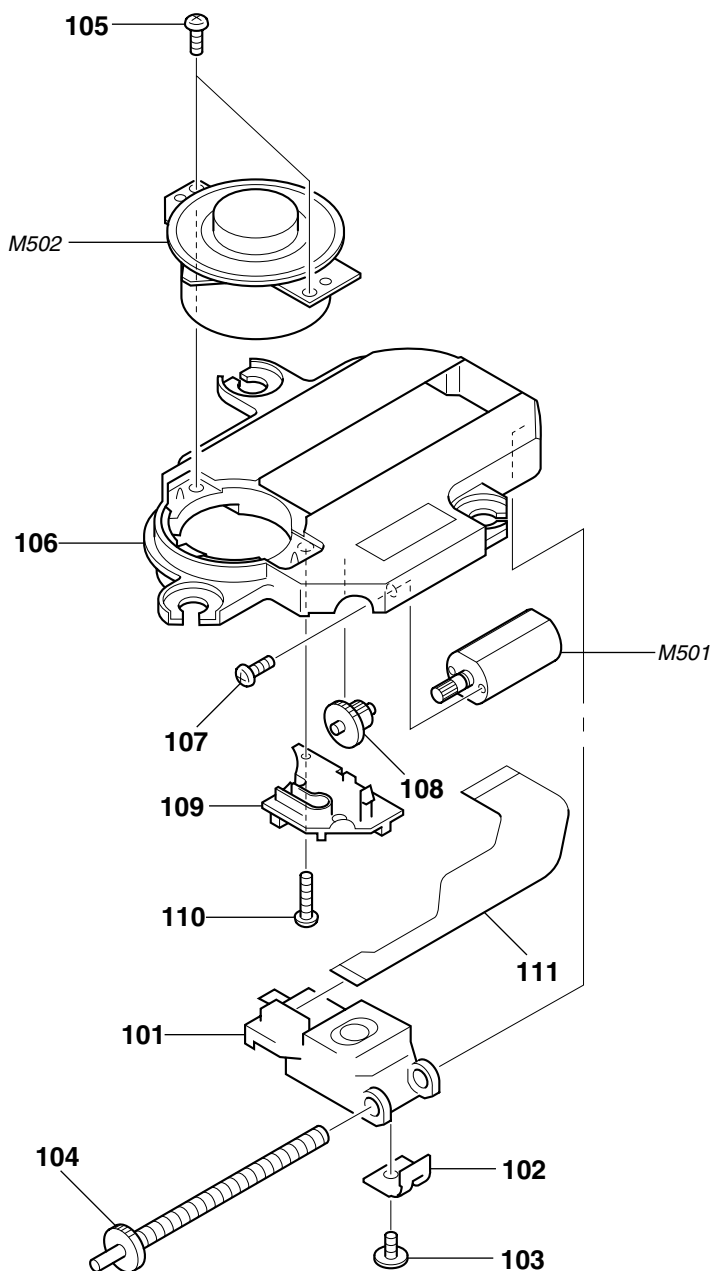
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-3378-735-1	LID ASSY, UPPER (SILVER) (E200:US)		1	X-3378-746-1	LID ASSY, UPPER (SILVER) (E251:US)	
1	X-3378-736-1	LID ASSY, UPPER (SILVER) (E200:AEP,FR,G)		1	X-3378-747-1	LID ASSY, UPPER (SILVER) (E251:AEP,FR,G)	
1	X-3378-737-1	LID ASSY, UPPER (BLUE) (E200:AEP,FR,G)		2	4-215-485-01	SPRING, TORSION	
1	X-3378-738-1	LID ASSY, UPPER (SILVER) (E201:CND)		3	3-336-395-01	SCREW (B2X10) (G), TAPPING	
1	X-3378-739-1	LID ASSY, UPPER (BLUE) (E201:CND)		4	3-043-802-01	KNOB (ESP)	
1	X-3378-740-1	LID ASSY, UPPER (SILVER) (E201:AEP,UK,FR, G,EE,E13,E33,E92,AR,EA,HK,MX,AUS,CH)		5	4-214-869-11	BUTTON (OPEN) (SILVER)	
1	X-3378-741-1	LID ASSY, UPPER (BLUE) (E201:AEP,UK,FR,G, EE,E13,HK,AUS,CH)		5	4-214-869-21	BUTTON (OPEN) (BLUE)	
1	X-3378-742-1	LID ASSY, UPPER (GREEN) (E201:AEP,UK,FR,G, AUS)		5	4-214-869-31	BUTTON (OPEN) (GREEN)	
1	X-3378-743-1	LID ASSY, UPPER (SILVER) (E206CK:US,CND)		6	X-3378-731-1	CABINET (UPPER /S) (SERVICE) ASSY (SILVER)	
1	X-3378-744-1	LID ASSY, UPPER (SILVER) (E206CK:AEP,UK, FR,G,EE,E13,E33,E92,AUS)		6	X-3378-732-1	CABINET (UPPER /L) (SERVICE) ASSY (BLUE)	
				6	X-3378-733-1	CABINET (UPPER /G) (SERVICE) ASSY (GREEN)	
				7	4-214-868-41	BUTTON (CONTROL)	

6-2. CABINET (LOWER) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-214-676-01	INSULATOR		54	4-214-642-01	TERMINAL BOARD (RELAY), BATTERY	
52	A-3323-506-A	MAIN BOARD, COMPLETE (EXCEPT E200:FR/ E201:FR/E206CK:FR/E251)		55	X-3378-734-1	CABINET (LOWER) SUB ASSY	
52	A-3323-518-A	MAIN BOARD, COMPLETE (E251:EXCEPT FR)		56	4-966-278-01	FOOT, RUBBER	
52	A-3323-526-A	MAIN BOARD, COMPLETE (E200:FR/E201:FR/ E206CK:FR/E251:FR)		57	4-214-867-11	LID, BATTERY CASE	
52	A-3323-553-A	MAIN BOARD, COMPLETE (E251:FR)		58	4-218-592-01	CUSHION	
53	4-214-872-01	HOLDER (LCD)		LCD801	1-803-945-11	DISPLAY PANEL, LIQUID CRYSTAL	

### 6-3. CD MECHANISM DECK SECTION (CDM-2811AAC)



The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
$\triangle$ 101	X-4951-546-1	DAX-11A RP ASSY	
102	4-972-165-01	RACK	
103	4-973-631-01	SCREW	
104	A-3303-970-A	SCREW ASSY, FEED	
105	3-719-401-11	SCREW (B1.7), TAPPING	
* 106	4-211-090-01	CHASSIS	
107	7-627-850-17	SCREW, PRECISION +P 1.4X2.5	

Ref. No.	Part No.	Description	Remark
108	4-974-003-01	GEAR (B)	
109	4-972-163-04	SPRING, SLED	
110	3-318-203-01	SCREW (B1.7), TAPPING	
111	1-660-965-11	SLIDE FLEXIBLE BOARD	
M501	A-3303-403-A	MOTOR ASSY, SLED (SLED)	
M502	A-3320-788-A	MOTOR ASSY, TURN TABLE (SPINDLE)	

## SECTION 7

### ELECTRICAL PARTS LIST



NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

- Abbreviation

AR : Argentine model  
AUS : Australian model  
CH : Chinese model  
CND : Canadian model  
E13 : AC 220-230V area in E model  
E33 : AC 100-240V area in E model  
E92 : AC 120V area in E model  
EA : Saudi Arabia model  
EE : East European model  
FR : French model  
G : German model  
HK : Hong Kong model  
MX : Mexican model

- **RESISTORS**  
All resistors are in ohms.  
METAL: Metal-film resistor.  
METAL OXIDE: Metal oxide-film resistor.  
F: nonflammable
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- **SEMICONDUCTORS**  
In each case, u :  $\mu$ , for example:  
uA.. :  $\mu$ A..    uPA.. :  $\mu$ PA..  
uPB.. :  $\mu$ PB..    uPC.. :  $\mu$ PC..    uPD.. :  $\mu$ PD..
- **CAPACITORS**  
uF :  $\mu$ F
- **COILS**  
uH :  $\mu$ H

The components identified by mark  or dotted line with mark  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une  
marque  $\Delta$  sont critiques pour  
la sécurité.  
Ne les remplacer que par une pièce  
portant le numéro spécifié.







When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
	A-3323-506-A	MAIN BOARD, COMPLETE (EXCEPT E200:FR/ E201:FR/E206CK:FR/E251)					C418	1-124-635-00	ELECT	220uF	20%	6.3V	
	A-3323-518-A	MAIN BOARD, COMPLETE (E251:EXCEPT FR)					C419	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	
	A-3323-526-A	MAIN BOARD, COMPLETE (E200:FR/E201:FR/ E206CK:FR/E251:FR)					C421	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V	
	A-3323-553-A	MAIN BOARD, COMPLETE (E251:FR) *****					C422	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	
		< BATTERY TERMINAL >					C423	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	
							C424	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
							C425	1-115-156-11	CERAMIC CHIP	1uF		10V	
							C427	1-110-569-11	TANTAL. CHIP	47uF	20%	4V	
							C428	1-164-156-11	CERAMIC CHIP	0.1uF		16V	
BT401	4-978-695-01	PLATE, TERMINAL, BATTERY					C429	1-164-156-11	CERAMIC CHIP	0.1uF		16V	
BT402	4-978-695-01	PLATE, TERMINAL, BATTERY											
		< CAPACITOR >					C430	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
							C431	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
							C442	1-115-156-11	CERAMIC CHIP	1uF		10V	
C102	1-216-864-11	METAL CHIP	0	5%	1/16W		C451	1-164-346-11	CERAMIC CHIP	1uF		16V	
C103	1-164-230-11	CERAMIC CHIP	220PF	5%	50V		C453	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	
C104	1-162-962-11	CERAMIC CHIP	470PF	10%	50V								
C105	1-109-982-11	CERAMIC CHIP	1uF	10%	10V		C461	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C154	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C462	1-162-925-11	CERAMIC CHIP	68PF	5%	50V	
							C500	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C202	1-216-864-11	METAL CHIP	0	5%	1/16W		C501	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C203	1-164-230-11	CERAMIC CHIP	220PF	5%	50V		C502	1-135-201-11	TANTALUM CHIP	10uF	20%	4V	
C204	1-162-962-11	CERAMIC CHIP	470PF	10%	50V								
C205	1-109-982-11	CERAMIC CHIP	1uF	10%	10V		C503	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C254	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C504	1-162-907-11	CERAMIC CHIP	2PF	0.25PF	50V	
							C505	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C300	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V		C506	1-104-847-11	TANTAL. CHIP	22uF	20%	4V	
C351	1-115-156-11	CERAMIC CHIP	1uF		10V		C508	1-135-201-11	TANTALUM CHIP	10uF	20%	4V	
C352	1-135-201-11	TANTALUM CHIP	10uF	20%	4V								
C353	1-135-201-11	TANTALUM CHIP	10uF	20%	4V		C601	1-135-201-11	TANTALUM CHIP	10uF	20%	4V	
C354	1-128-057-11	ELECT	330uF	20%	6.3V		C602	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	
							C603	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C401	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C604	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	
C402	1-164-505-11	CERAMIC CHIP	2.2uF		16V		C605	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C403	1-162-927-11	CERAMIC CHIP	100PF	5%	50V								
C404	1-104-913-11	TANTAL. CHIP	10uF	20%	16V		C606	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C405	1-115-156-11	CERAMIC CHIP	1uF		10V		C607	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
							C608	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C406	1-104-752-11	TANTAL. CHIP	33uF	20%	6.3V		C609	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	
C407	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V		C611	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	
C408	1-162-919-11	CERAMIC CHIP	22PF	5%	50V								
C409	1-110-569-11	TANTAL. CHIP	47uF	20%	4V		C612	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C410	1-110-569-11	TANTAL. CHIP	47uF	20%	4V		C613	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
							C614	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C411	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C615	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V		C616	1-135-201-11	TANTALUM CHIP	10uF	20%	4V	
C413	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
C414	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V		C617	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C415	1-164-156-11	CERAMIC CHIP	0.1uF		25V		C618	1-164-505-11	CERAMIC CHIP	2.2uF		16V	
							C619	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C416	1-164-156-11	CERAMIC CHIP	0.1uF		25V		C621	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C417	1-110-569-11	TANTAL. CHIP	47uF	20%	4V		C622	1-164-156-11	CERAMIC CHIP	0.1uF		25V	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C623	1-115-156-11	CERAMIC CHIP	1uF		10V	IC402	8-759-651-13	IC NJU7116F(Te2)			
C624	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	IC403	8-759-577-33	IC RN5RZ20BA-TR			
C625	1-104-847-11	TANTAL. CHIP	22uF	20%	4V	IC601	8-752-398-18	IC CXD3027R			
C626	1-104-847-11	TANTAL. CHIP	22uF	20%	4V	IC602	8-759-538-44	IC MSM51V17400D-10TK-FS			
C627	1-164-156-11	CERAMIC CHIP	0.1uF		25V	IC603	8-759-670-17	IC MSM51V4400D-70SJ7FS1			(E200/E201/E206CK)
C628	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	IC801	8-759-671-03	IC TMP88CH22F-1A75			
C629	1-164-156-11	CERAMIC CHIP	0.1uF		25V			< JACK >			
C630	1-162-925-11	CERAMIC CHIP	68PF	5%	50V	J302	1-774-804-11	JACK (PHONES)			
C631	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	J401	1-778-153-21	JACK, DC (POLARITY UNIFIED TYPE)			(DC IN 4.5V)
C632	1-164-156-11	CERAMIC CHIP	0.1uF		25V			< COIL >			
C633	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	L401	1-419-544-21	COIL, CHOKE			
C634	1-124-635-11	ELECT	220uF	20%	10V	L402	1-469-525-91	INDUCTOR		10uH	
C635	1-115-156-11	CERAMIC CHIP	1uF		10V	L403	1-412-054-21	INDUCTOR		2.2uH	
C636	1-164-156-11	CERAMIC CHIP	0.1uF		25V	L404	1-412-054-21	INDUCTOR		2.2uH	
C639	1-115-156-11	CERAMIC CHIP	1uF		10V	L408	1-412-039-51	INDUCTOR CHIP		100uH	
C800	1-164-156-11	CERAMIC CHIP	0.1uF		25V	L409	1-469-527-91	INDUCTOR		47uH	
C801	1-165-128-11	CERAMIC CHIP	0.22uF		16V	L410	1-469-527-91	INDUCTOR		47uH	
C802	1-165-128-11	CERAMIC CHIP	0.22uF		16V			< LIQUID CRYSTAL DISPLAY >			
C803	1-165-128-11	CERAMIC CHIP	0.22uF		16V	LCD801	1-803-945-11	DISPLAY PANEL, LIQUID CRYSTAL			
C804	1-164-156-11	CERAMIC CHIP	0.1uF		25V			< TRANSISTOR >			
C805	1-164-156-11	CERAMIC CHIP	0.1uF		25V	Q401	8-729-921-93	TRANSISTOR	2SB1182F5-QR-TLQR		
C806	1-164-156-11	CERAMIC CHIP	0.1uF		25V	Q402	8-729-920-82	TRANSISTOR	2SB1188-QR		
C807	1-164-156-11	CERAMIC CHIP	0.1uF		25V	Q403	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR		
C808	1-164-156-11	CERAMIC CHIP	0.1uF		25V	Q404	8-729-050-11	TRANSISTOR	UMW1NTR		
C809	1-164-156-11	CERAMIC CHIP	0.1uF		25V	Q405	8-729-905-40	TRANSISTOR	2SC4081T106		
C810	1-164-156-11	CERAMIC CHIP	0.1uF		25V	Q406	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR		
C811	1-117-720-11	CERAMIC CHIP	4.7uF		10V	Q408	8-729-029-10	TRANSISTOR	DTC143TUA-T106		
C841	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	Q410	8-729-922-10	TRANSISTOR	2SA1577-T106-QR		
		< CONNECTOR >				Q411	8-729-905-40	TRANSISTOR	2SC4081T106		
CN501	1-566-530-11	CONNECTOR, FPC (ZIF) 14P				Q501	8-729-930-38	TRANSISTOR	UMS2-TR		
* CN502	1-695-320-21	PIN, CONNECTOR (1.5mm) (SMD) 2P				Q502	8-729-050-11	TRANSISTOR	UMW1NTR		
* CN503	1-695-320-31	PIN, CONNECTOR (1.5mm) (SMD) 2P				Q503	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR		
		< DIODE >				Q504	8-729-930-41	TRANSISTOR	UMW2-TR		
D401	8-719-077-01	DIODE CRS03(TE85L)						< RESISTOR >			
D406	8-719-058-24	DIODE RB501V-40TE-17				R1	1-216-864-11	METAL CHIP	0	5%	1/16W
D408	8-719-049-09	DIODE 1SS367-T3SONY				R2	1-216-864-11	METAL CHIP	0	5%	1/16W
D409	8-719-976-96	DIODE UDZ-TE-17-4.7B				R3	1-216-864-11	METAL CHIP	0	5%	1/16W
D410	8-719-077-01	DIODE CRS03(TE85L)				R4	1-412-002-31	INDUCTOR	4.7uH		
D461	8-719-049-09	DIODE 1SS367-T3SONY				R5	1-410-993-42	INDUCTOR	1uH		
D601	8-719-941-86	DIODE DAN202UT106				R101	1-216-835-11	METAL CHIP	15K	5%	1/16W
		< JUMPER RESISTOR >									(EXCEPT FR)
FB111	1-216-864-11	METAL CHIP	0	5%	1/16W	R101	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
FB211	1-216-864-11	METAL CHIP	0	5%	1/16W						(FR)
FB311	1-216-864-11	METAL CHIP	0	5%	1/16W	R102	1-216-864-11	METAL CHIP	0	5%	1/16W
FB602	1-216-864-11	METAL CHIP	0	5%	1/16W	R104	1-216-837-11	METAL CHIP	22K	5%	1/16W
FB603	1-216-864-11	METAL CHIP	0	5%	1/16W						
		< IC >									
IC302	8-759-522-87	IC TA2120FN(EL)									
IC401	8-759-670-16	IC TB2119FA									

# MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R107	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (EXCEPT FR)	R454	1-218-887-11	METAL CHIP	47K	0.5%	1/16W
R107	1-216-839-11	METAL CHIP	33K	5%	1/16W (FR)	R455	1-216-839-11	METAL CHIP	33K	5%	1/16W
R154	1-216-793-11	RES-CHIP	4.7	5%	1/16W	R456	1-216-843-11	METAL CHIP	68K	5%	1/16W
R201	1-216-835-11	METAL CHIP	15K	5%	1/16W (EXCEPT FR)	R457	1-216-845-11	METAL CHIP	100K	5%	1/16W
R201	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (FR)	R458	1-216-833-11	RES-CHIP	10K	5%	1/16W
R202	1-216-864-11	METAL CHIP	0	5%	1/16W	R461	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R204	1-216-837-11	METAL CHIP	22K	5%	1/16W	R462	1-218-887-11	METAL CHIP	47K	0.5%	1/16W
R207	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (EXCEPT FR)	R463	1-216-857-11	METAL CHIP	1M	5%	1/16W
R207	1-216-839-11	METAL CHIP	33K	5%	1/16W (FR)	R464	1-216-864-11	METAL CHIP	0	5%	1/16W
R254	1-216-793-11	RES-CHIP	4.7	5%	1/16W	R465	1-216-821-11	METAL CHIP	1K	5%	1/16W
R301	1-216-845-11	METAL CHIP	100K	5%	1/16W	R467	1-216-821-11	METAL CHIP	1K	5%	1/16W
R353	1-216-308-00	METAL CHIP	4.7	5%	1/10W	R501	1-216-839-11	METAL CHIP	33K	5%	1/16W
R401	1-216-861-11	METAL CHIP	2.2M	5%	1/16W	R502	1-216-839-11	METAL CHIP	33K	5%	1/16W
R402	1-216-839-11	METAL CHIP	33K	5%	1/16W	R503	1-216-835-11	METAL CHIP	15K	5%	1/16W
R403	1-216-853-11	METAL CHIP	470K	5%	1/16W	R504	1-216-817-11	METAL CHIP	470	5%	1/16W
R404	1-216-839-11	METAL CHIP	33K	5%	1/16W	R505	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R405	1-216-789-11	METAL CHIP	2.2	5%	1/16W	R506	1-216-821-11	METAL CHIP	1K	5%	1/16W
R406	1-216-817-11	METAL CHIP	470	5%	1/16W	R507	1-216-821-11	METAL CHIP	1K	5%	1/16W
R407	1-216-864-11	METAL CHIP	0	5%	1/16W	R508	1-216-837-11	METAL CHIP	22K	5%	1/16W
R409	1-216-849-11	METAL CHIP	220K	5%	1/16W	R509	1-216-817-11	METAL CHIP	470	5%	1/16W
R410	1-216-843-11	METAL CHIP	68K	5%	1/16W	R510	1-216-813-11	METAL CHIP	220	5%	1/16W
R411	1-500-444-11	FERRITE, EMI (SMD)				R511	1-216-813-11	METAL CHIP	220	5%	1/16W
R415	1-216-833-11	RES-CHIP	10K	5%	1/16W	R512	1-216-864-11	METAL CHIP	0	5%	1/16W
R416	1-216-857-11	METAL CHIP	1M	5%	1/16W	R513	1-216-295-00	SHORT	0		
R417	1-216-864-11	METAL CHIP	0	5%	1/16W	R514	1-216-843-11	METAL CHIP	68K	5%	1/16W
R418	1-218-891-11	METAL CHIP	68K	0.5%	1/16W	R601	1-500-444-11	FERRITE, EMI (SMD)			
R419	1-218-903-11	METAL CHIP	220K	0.5%	1/16W	R603	1-216-851-11	METAL CHIP	330K	5%	1/16W
R421	1-216-857-11	METAL CHIP	1M	5%	1/16W	R604	1-216-857-11	METAL CHIP	1M	5%	1/16W
R423	1-216-841-11	METAL CHIP	47K	5%	1/16W	R605	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R424	1-216-839-11	METAL CHIP	33K	5%	1/16W	R606	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R429	1-216-821-11	METAL CHIP	1K	5%	1/16W	R607	1-216-833-11	RES-CHIP	10K	5%	1/16W
R430	1-216-833-11	RES-CHIP	10K	5%	1/16W	R608	1-216-845-11	METAL CHIP	100K	5%	1/16W
R431	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R609	1-216-833-11	RES-CHIP	10K	5%	1/16W
R432	1-412-002-31	INDUCTOR	4.7uH			R610	1-216-845-11	METAL CHIP	100K	5%	1/16W
R433	1-216-864-11	METAL CHIP	0	5%	1/16W	R611	1-216-837-11	METAL CHIP	22K	5%	1/16W
R439	1-216-864-11	METAL CHIP	0	5%	1/16W	R613	1-216-837-11	METAL CHIP	22K	5%	1/16W
R440	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R614	1-216-843-11	METAL CHIP	68K	5%	1/16W
R441	1-216-864-11	METAL CHIP	0	5%	1/16W	R615	1-216-837-11	METAL CHIP	22K	5%	1/16W
R442	1-216-864-11	METAL CHIP	0	5%	1/16W	R616	1-216-843-11	METAL CHIP	68K	5%	1/16W
R443	1-216-811-11	METAL CHIP	150	5%	1/16W	R617	1-216-837-11	METAL CHIP	22K	5%	1/16W
R446	1-216-821-11	METAL CHIP	1K	5%	1/16W	R618	1-216-845-11	METAL CHIP	100K	5%	1/16W
R447	1-216-864-11	METAL CHIP	0	5%	1/16W	R619	1-216-837-11	METAL CHIP	22K	5%	1/16W
R448	1-216-864-11	METAL CHIP	0	5%	1/16W	R620	1-216-821-11	METAL CHIP	1K	5%	1/16W
R449	1-216-845-11	METAL CHIP	100K	5%	1/16W	R621	1-216-864-11	METAL CHIP	0	5%	1/16W
R450	1-216-819-11	METAL CHIP	680	5%	1/16W	R624	1-216-819-11	METAL CHIP	680	5%	1/16W
R451	1-218-903-11	METAL CHIP	220K	0.5%	1/16W	R625	1-216-845-11	METAL CHIP	100K	5%	1/16W
R452	1-218-887-11	METAL CHIP	47K	0.5%	1/16W	R626	1-216-864-11	METAL CHIP	0	5%	1/16W
R453	1-218-887-11	METAL CHIP	47K	0.5%	1/16W	R627	1-216-864-11	METAL CHIP	0	5%	1/16W
						R628	1-216-864-11	METAL CHIP	0	5%	1/16W
						R629	1-216-845-11	METAL CHIP	100K	5%	1/16W
						R630	1-216-864-11	METAL CHIP	0	5%	1/16W
						R631	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R632	1-216-839-11	METAL CHIP	33K	5%	1/16W

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark
R634	1-216-809-11	METAL CHIP	100	5%	1/16W	S803	1-572-922-11	SWITCH, SLIDE (HOLD  )	
R636	1-216-845-11	METAL CHIP	100K	5%	1/16W	S804	1-553-977-00	SWITCH, SLIDE (ESP)	
R637	1-216-809-11	METAL CHIP	100	5%	1/16W	S805	1-771-349-21	SWITCH, TACTILE (VOL -)	
R638	1-216-821-11	METAL CHIP	1K	5%	1/16W	S806	1-771-349-21	SWITCH, TACTILE (VOL +)	
R801	1-216-845-11	METAL CHIP	100K	5%	1/16W	S807	1-771-349-21	SWITCH, TACTILE (  )	
R802	1-216-845-11	METAL CHIP	100K	5%	1/16W	S808	1-771-349-21	SWITCH, TACTILE (    )	
R803	1-216-843-11	METAL CHIP	68K	5%	1/16W	S809	1-771-349-21	SWITCH, TACTILE (  )	
R804	1-218-871-11	METAL CHIP	10K	0.5%	1/16W	S810	1-771-349-21	SWITCH, TACTILE (MENU)	
R805	1-216-821-11	METAL CHIP	1K	5%	1/16W				
R806	1-216-833-11	RES-CHIP	10K	5%	1/16W			< VARISTOR >	
R807	1-216-849-11	METAL CHIP	220K	5%	1/16W	VDR101	1-801-862-11	VARISTOR, CHIP	
		(EXCEPT E200:FR/E201:FR/E206CK:FR/E251)				VDR201	1-801-862-11	VARISTOR, CHIP	
R807	1-216-843-11	METAL CHIP	68K	5%	1/16W	VDR301	1-801-862-11	VARISTOR, CHIP	
		(E200:FR/E201:FR/E206CK:FR/E251:FR)				VDR601	1-801-862-11	VARISTOR, CHIP	
R807	1-216-845-11	METAL CHIP	100K	5%	1/16W			< VIBRATOR >	
		(E251:FR)							
R808	1-216-833-11	RES-CHIP	10K	5%	1/16W	X601	1-781-801-11	VIBRATOR, CERAMIC (16.9MHz)	
R809	1-216-845-11	METAL CHIP	100K	5%	1/16W			*****	
R810	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W				
R811	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W				
R812	1-218-855-11	METAL CHIP	2.2K	0.5%	1/16W				
R813	1-216-837-11	METAL CHIP	22K	5%	1/16W				
		(E251:EXCEPT FR)							
R813	1-216-839-11	METAL CHIP	33K	5%	1/16W				
		(EXCEPT E200:FR/E201:FR/E206CK:FR/E251)							
R813	1-216-847-11	METAL CHIP	150K	5%	1/16W				
		(E200:FR/E201:FR/E206CK:FR)							
R813	1-216-843-11	METAL CHIP	68K	5%	1/16W				
		(E251:FR)							
R814	1-216-845-11	METAL CHIP	100K	5%	1/16W				
R817	1-218-851-11	METAL CHIP	1.5K	0.5%	1/16W				
R818	1-216-847-11	METAL CHIP	150K	5%	1/16W				
		(EXCEPT E200:FR/E201:FR/E206CK:FR/E251)							
R818	1-216-851-11	METAL CHIP	330K	5%	1/16W				
		(E251:EXCEPT FR)							
R818	1-216-841-11	METAL CHIP	47K	5%	1/16W				
		(E200:FR/E201:FR/E206CK:FR)							
R818	1-216-849-11	METAL CHIP	220K	5%	1/16W				
		(E251:FR)							
R819	1-216-845-11	METAL CHIP	100K	5%	1/16W				
R820	1-218-847-11	METAL CHIP	1K	0.5%	1/16W				
R823	1-216-845-11	METAL CHIP	100K	5%	1/16W				
R824	1-216-845-11	METAL CHIP	100K	5%	1/16W				
R826	1-216-851-11	METAL CHIP	330K	5%	1/16W				
		(EXCEPT FR)							
R826	1-216-845-11	METAL CHIP	100K	5%	1/16W				
		(E200:FR/E201:FR/E206CK:FR/E251:FR)							
R826	1-216-849-11	METAL CHIP	220K	5%	1/16W				
		(E251:FR)							
R829	1-216-864-11	METAL CHIP	0	5%	1/16W				
R841	1-216-857-11	METAL CHIP	1M	5%	1/16W				
		< SWITCH >							
S801	1-762-822-11	SWITCH, PUSH (1 KEY) (OPEN)							
S802	1-572-922-11	SWITCH, SLIDE (MEGA BASS)							

# D-E200/E201/E206CK/E251

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		*****	
△ 101	X-4951-546-1	DAX-11A RP ASSY	
111	1-660-965-11	SLIDE FLEXIBLE BOARD	
M501	A-3303-403-A	MOTOR ASSY, SLED (SLED)	
M502	A-3320-788-A	MOTOR ASSY, TURN TABLE (SPINDLE)	
		*****	
		ACCESSORIES & PACKING MATERIALS	
		*****	
	1-251-824-12	CONNECTING PACK, CAR (CPA-7) (E206CK)	
△	1-418-261-11	ADAPTOR, AC (AC-E455F) (AEP,FR,G,EE,E13)	
△	1-467-007-21	ADAPTOR, AC (AC-E455A) (AUS)	
△	1-467-009-21	ADAPTOR, AC (AC-E455) (E92)	
△	1-467-012-11	ADAPTOR, AC (AC-E455) (EA)	
△	1-467-195-11	ADAPTOR, AC (AC-E454D) (US,CND,MX)	
△	1-467-550-11	ADAPTOR, AC (AC-E455A) (E33)	
△	1-473-115-11	ADAPTOR, AC (AC-E455F) (UK)	
△	1-475-622-11	ADAPTOR, AC (AC-E455) (CH)	
△	1-475-623-11	ADAPTOR, AC (AC-E455) (HK)	
△	1-475-969-11	ADAPTOR, AC (AC-E455) (AR)	
△	1-569-007-11	ADAPTOR, CONVERSION 2P (E201:E33)	
△	1-569-008-21	ADAPTOR, CONVERSION 2P (EA)	
	2-201-810-00	TAPE, MAGIC (E206CK)	
	2-021-018-01	LABEL, FRANCE (FR)	
	3-044-618-11	MANUAL, INSTRUCTION (SPANISH) (AEP,EE, E33,E92,AR,EA,MX)	
	3-044-618-21	MANUAL, INSTRUCTION (ENGLISH) (US,CND, AEP,UK,FR,EE,E33,E92,AUS)	
	3-044-618-31	MANUAL, INSTRUCTION (FRENCH) (CND,AEP, FR)	
	3-044-618-41	MANUAL, INSTRUCTION (DUTCH) (AEP,EE)	
	3-044-618-51	MANUAL, INSTRUCTION (SWEDISH) (AEP)	
	3-044-618-61	MANUAL, INSTRUCTION (PORTUGUESE) (AEP, E92)	
	3-044-618-71	MANUAL, INSTRUCTION (GERMAN) (AEP,G)	
	3-044-618-81	MANUAL, INSTRUCTION (ITALIAN) (AEP)	
	3-044-618-91	MANUAL, INSTRUCTION (FINNISH) (AEP)	
	3-044-619-11	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (E13,HK,CH)	
	3-044-619-21	MANUAL, INSTRUCTION (ENGLISH) (E13,HK)	
	3-044-619-31	MANUAL, INSTRUCTION (SIMPLIFIED CHINESE) (CH)	
	3-044-620-11	MANUAL, INSTRUCTION (RUSSIAN) (EE)	
	3-044-620-21	MANUAL, INSTRUCTION (CZECH) (EE)	
	3-044-620-31	MANUAL, INSTRUCTION (HUNGARIAN) (EE)	
	3-044-620-41	MANUAL, INSTRUCTION (POLISH) (EE)	
	3-044-620-51	MANUAL, INSTRUCTION (SLOVAKIAN) (EE)	
△	8-916-813-97	CORD DCC-E2455 (E206CK)	
	8-953-130-90	HEADPHONE MDR-E805LP (EXCEPT US,CND, E251:G)	
	8-953-342-98	HEADPHONE, STEREO MDR-24 (US,CND, E251:G)	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

# D-E200/E201/E206CK/E251

SONY®

## SERVICE MANUAL

Ver 1.2 2000. 08

*US Model*

*D-E200/E206CK/E251*

*AEP Model*

*D-E200/E201/E206CK/E251*

*Canadian Model*

*UK Model*

*E Model*

*Australian Model*

*D-E201/E206CK*

*Chinese Model*

*D-E201*

## SUPPLEMENT-1

File this supplement with the service manual.

**Subject :** Brazilian model Addition

Brazilian model is added to the D-E201.

This supplement-1 describes only differences from the D-E201 AEP model.

Refer to the service manual for D-E200/E201/E206CK/E251 (9-927-666-000) for other information.

### • ACCESSORIES & PACKING MATERIALS

Page	D-E201 AEP model				D-E201 Brazilian model		
	Ref. No.	Part No.	Description	Remark	Part No.	Description	Remark
32	△	1-418-261-11	ADAPTOR, AC (AC-E455F)		1-467-195-11	ADAPTOR, AC (AC-E455A)	
						(AC 120V in Brazilian model)	
	△		_____		1-418-261-11	ADAPTOR, AC (AC-E455F)	
						(AC 220V in Brazilian model)	
		3-043-618-11	MANUAL, INSTRUCTION (SPANISH)		3-043-618-11	MANUAL, INSTRUCTION (SPANISH)	
		3-043-618-21	MANUAL, INSTRUCTION (ENGLISH)		3-043-618-21	MANUAL, INSTRUCTION (ENGLISH)	
		3-043-618-31	MANUAL, INSTRUCTION (FRENCH)			_____	
		3-043-618-41	MANUAL, INSTRUCTION (DUTCH)			_____	
		3-043-618-51	MANUAL, INSTRUCTION (SWEDISH)			_____	
		3-043-618-61	MANUAL, INSTRUCTION (PORTUGUESE)		3-043-618-61	MANUAL, INSTRUCTION (PORTUGUESE)	
		3-043-618-71	MANUAL, INSTRUCTION (GERMAN)			_____	
		3-043-618-81	MANUAL, INSTRUCTION (ITALIAN)			_____	
		3-043-618-91	MANUAL, INSTRUCTION (FINNISH)			_____	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

## REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

[illegible]